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Federal-State Cooperative
Snow Surveys and Water Supply Forecasts

Montana and Northern Wyoming
Upper Missouri,
Upper Columbia and
Yellowstone Rivers

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
MONTANA AGRICULTURAL EXPERIMENT STATION

In cooperation with the U. S. Forest Service, U. S. Geological Survey
National Park Service, Bureau of Reclamation, State Engineers
of Montana and Wyoming and other Federal, State and local organizations.

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APRIL 1, 1952

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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office, listed below:

Meteorologist in Charge.....Missouri River and
Weather Bureau Office tributaries above
Box 1705 Fort Peck Dam; Milk
Helena, Mont. River

Meteorologist in Charge.....Yellowstone River
Weather Bureau Airport Station and tributaries.
Box 1338 Billings, Mont.

Meteorologist in Charge.....Columbia River and
Weather Bureau Airport Station tributaries above
R.F.D. #1 and including Grand
Spokane, Washington Coulee Dam.

State of Montana

FEDERAL - STATE COOPERATIVE
SNOW SURVEYS and WATER SUPPLY FORECASTS
for
MONTANA AND NORTHERN WYOMING
(Upper Missouri and Upper Columbia River Basins)

Report Prepared by:

A. R. Codd
Hydraulic Engineer
Soil Conservation Service

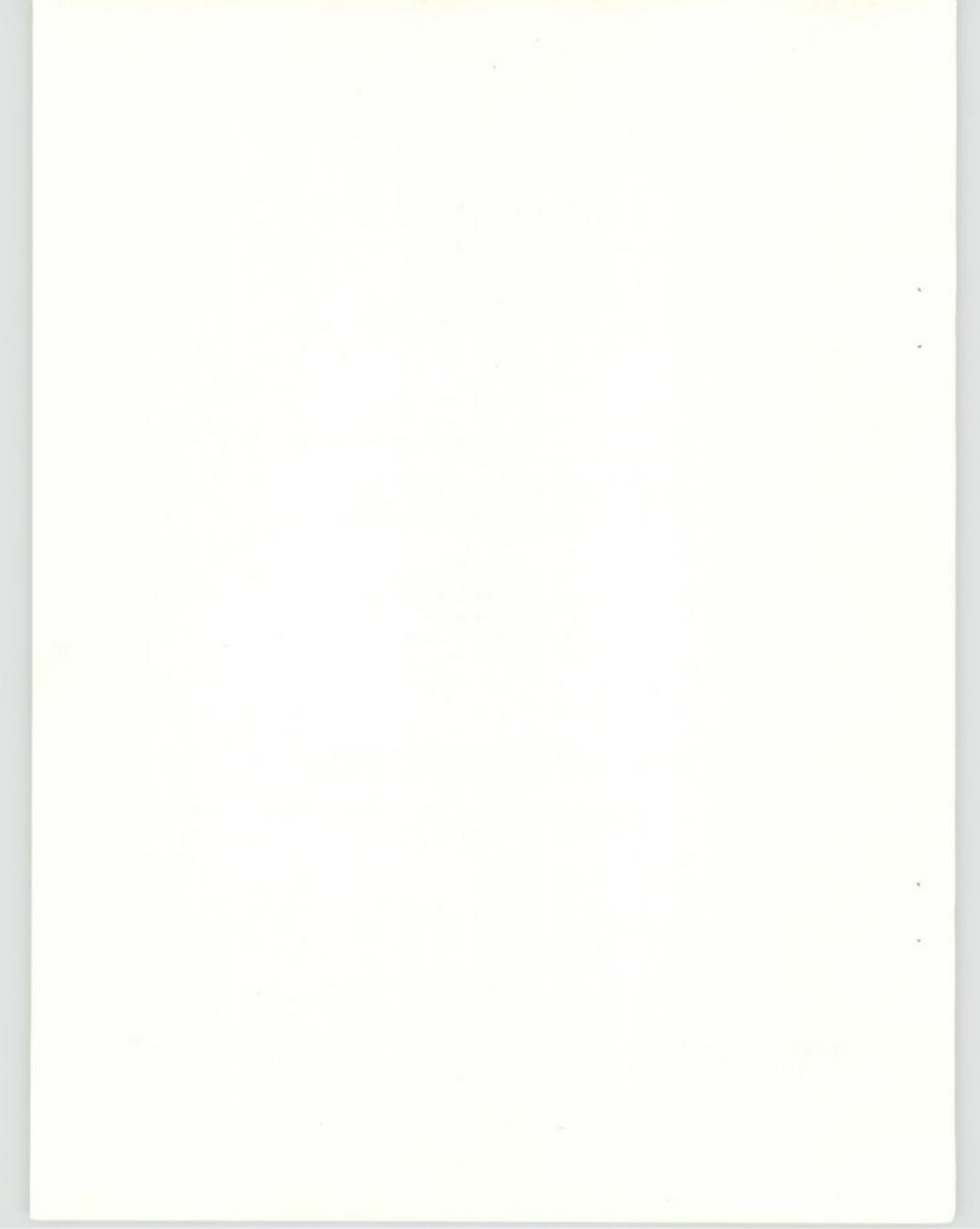
and
O. W. Monson
Irrigation Engineer
Montana Agricultural
Experiment Station

Soil Conservation Service
U. S. Department of Agriculture
and
Montana Agricultural Experiment Station
Bozeman, Montana

Report issued by:

Truman C. Anderson
State Conservationist
of Montana

M. M. Kelso, Director
Montana Agricultural
Experiment Station



WATER SUPPLY OUTLOOK
FOR 1955 SEASON
APRIL 1, 1955

A fair water supply outlook now exists over the Missouri and Columbia River Basins in Montana. The several good storms which covered the State during March produced sufficient moisture to raise the potential water supply to almost normal in many basins and slightly below in others.

The terrific snow storm from April 1 through April 6 brought a record high snowfall to many sections of the State and left others completely bare. This spotted condition of the storm has made it difficult to evaluate in the terms of seasonal or early runoff. No doubt there will be local flooding in some areas, but the general condition from a seasonal runoff standpoint is not serious. There is no doubt that the storm will be of immense value to the dry-land farmers throughout the eastern part of the State where precipitation has been lacking during the fall and previous winter months.

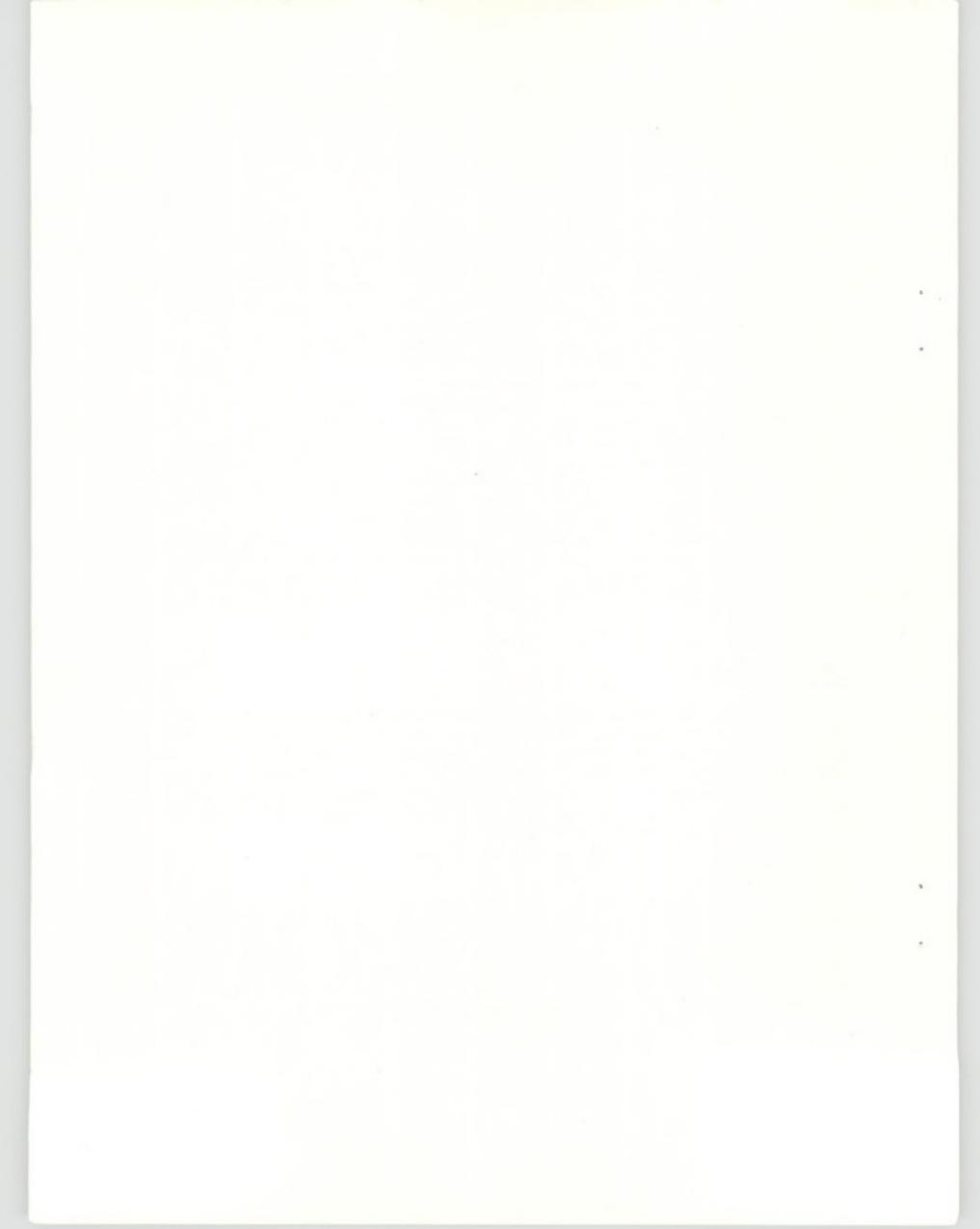
Reservoir storage in the northern part of the State is above average, while on April 1 reservoir storage in the southern and central part of the State was somewhat below average.

JEFFERSON RIVER:

The snow-pack over the Beaverhead-Jefferson River Basin has increased slightly during the month of March. Their seasonal stream-flow forecasts have been raised to approximately 70 per cent of average. The April 1-6 storm was comparatively light in the Beaverhead-Jefferson valley. At Lima, 0.1 inches of water was recorded; at Dillon 1.06 inches; at Virginia City 1.01 inches during the five days. It is believed that this snowfall will be of considerable benefit to dry land ranches and stockmen.

MADISON RIVER:

The April 1 snow-pack over the Madison Basin has increased to approximately 80 per cent of the usual amount expected on that date. The April-September flow for the Madison River at West Yellowstone is anticipated to reach 84 per cent average or 181,000 acre feet. The April 1-6 storm brought considerable moisture to the mid-portion of the basin but deposited only a small amount in the large vicinity of Hebgen Lake and West Yellowstone.



GALLATIN RIVER:

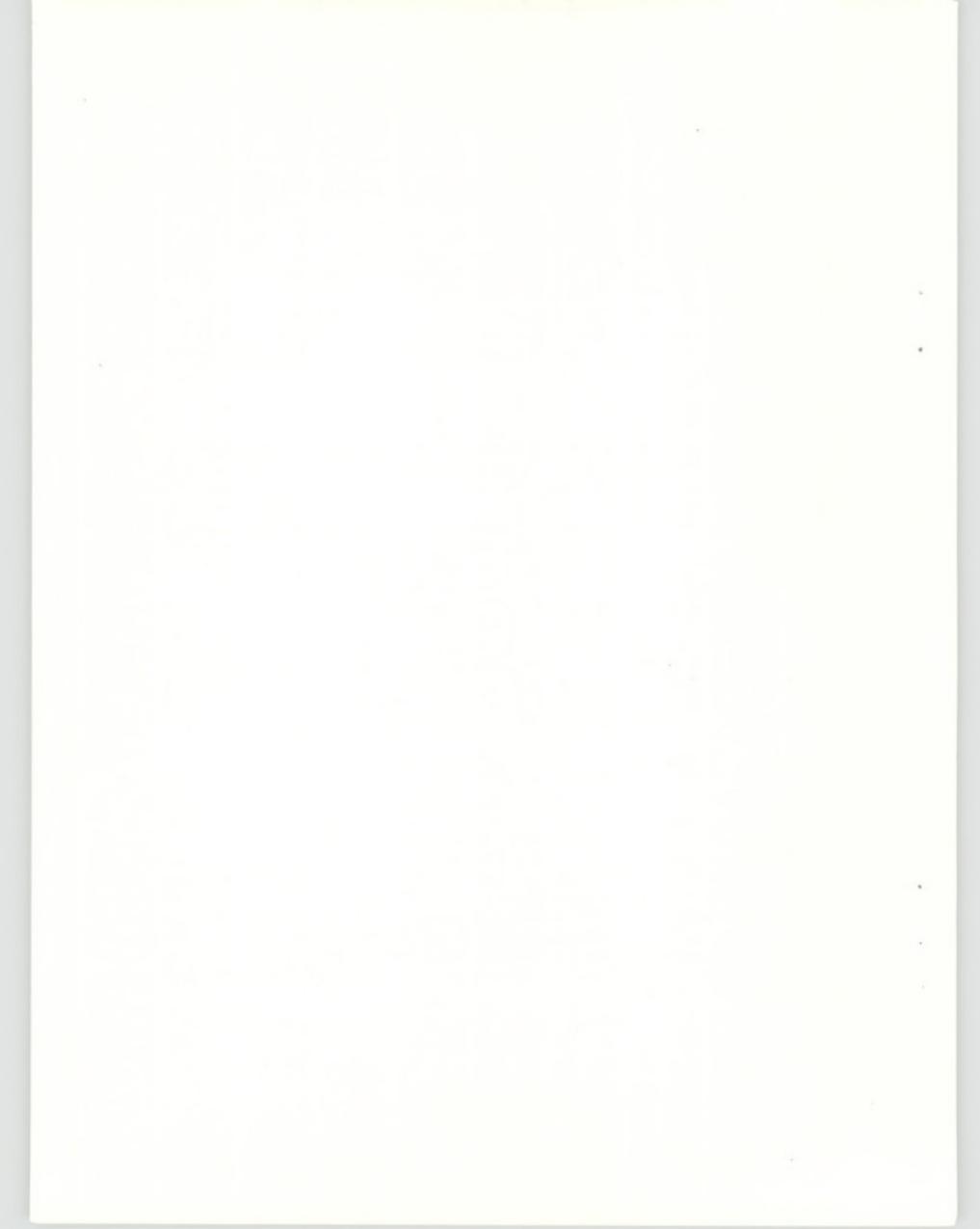
The snow-pack over the Gallatin River has increased over the amount reported in March to the extent that the high snow is very close to the average figure. The water content on April 1 was 97 per cent last year, 104 per cent of the year before, and 97 per cent of average of the past 18 years record. The April 1-6 snowstorm brought a considerable amount of moisture to the eastern portions of the Gallatin valley to very slight amounts in the western portions of the valley. At Bozeman, 3.25 inches of moisture was recorded with only a few hundredths of precipitation at Manhattan. Due to the late accumulation of snow, it is anticipated that the spring runoff will be early and there will not be a prolonged runoff season. The percentages of normal snow cover on the Gallatin and Madison Basins are higher than other tributaries to the Missouri River.

YELLOWSTONE RIVER:

Snow surveys conducted by the Yellowstone Park Rangers in the upper portions of the basin show considerable increase toward a normal condition in the 1955 snow-pack. At the present time, the average of 9 snow survey courses shows that this year is 76 per cent of last year, 92 per cent of the year before, and 92 per cent of the long-time average in the Park. The Yellowstone River at Corwin Springs will probably flow in the neighborhood of 1,714,000 acre feet during the April-July period or 85 per cent average. The April 1-6 storm brought a tremendous amount of snow to the Yellowstone valley with 4.00 inches of water content at Billings and 3.57 at Hardin. This would mean that dry-land farmers will benefit considerably from this storm. However, the mountain ranges did not receive anywhere near their portion of the storm. The over-all seasonal forecast for the Clark Fork River at Chance and Edgar is 84 per cent of average, while the Yellowstone River at Billings is expected to flow 87 per cent average. There will, no doubt, be local flooding of fast-melting snow in the valley areas. However, the high mountain snow will not appear in the streams for several weeks.

MISSOURI MAIN STEM:

The 1955 snow-pack in the tributary streams to the Missouri from Toston to Fort Benton is about 6 per cent below the usual amount. Portions of the Big Belt Mountains received considerable snow during the April 1-6 storm. However, the valley stations are reporting a greater amount with mountain stations reporting a smaller per cent for the 5-day storm. All forecasts have been revised upward from those issued March first. It is anticipated that the Missouri River at Toston will flow 76 per cent of average during the April-September period, or 1,904,000 acre feet. At Fort Benton, the River should flow about 78 per cent of average with Fort Peck Reservoir receiving approximately 3,756,000 acre feet of water during the April-September period and 3,254,000 acre feet during the April-July period.



SUN RIVER:

April 1 snow surveys indicated that the Sun River Basin snow-pack this season is only 59 per cent of last year; 115 per cent of the year before and 84 per cent of the usual amount. This would indicate that the potential storage for Gibson Dam will be considerably less than last year, about half. The flow into Gibson Dam should be approximately 20 per cent below the average. Due to the late season's snow-pack, it is anticipated that the runoff will be earlier than usual this season.

COLUMBIA BASIN

FLATHEAD RIVER:

April 1 snow surveys at 21 snow survey courses over the Flathead Basin above Polson, indicate that the April 1, 1955 snow-pack is 72 per cent of last year; 100 per cent of the year before and 86 per cent of the usual occurrence. The April 1-6 snowstorm, which caused so much trouble east of the Continental Divide, did not add materially to the snow-pack on the Columbia Basin. The stream-flow forecasts issued on the first of March have been revised upward to approximately 82 to 85 per cent. The forecasted flow into Hungry Horse Dam is 1,850,000 acre feet of water during the April-July and April-June runoff periods are shown in the tables following this writeup for the various points along the Flathead and Clark Fork Rivers.

CLARK FORK RIVER:

The 1955 snow-pack over the Clark Fork Basin on April 1 has increased materially during March. The present snow-pack is 81 per cent of last year, 93 per cent of the year before, and 95 per cent of average. The Bitterroot Basins seem to have a little bit higher per cent of snow-pack but stream-flow forecasts are down in comparison. The Blackfoot Basin has a 70 per cent average snow-pack this season. It is anticipated that the flow of the Clark Fork River above Missoula will be 71 per cent average during the April-September period or 1,317,000 acre feet.

MONTANA STREAM-FLOW FORECASTS APRIL 1, 1955

UPPER MISSOURI RIVER IN MONTANA	Seasonal Stream-Flow in Thousands of Acre Feet					
	FORECAST RUNOFF	% Avg.	FORE- CAST PERIOD	Measured 1953	Runoff* 1952	10-Yr. Avg. 1943-52
RED ROCK RIVER						
Monida (near) (1)	72	80	Apr-Sept	72	126	89
	67	77	Apr-July	72	124	88
Kennedy Ranch (at)	62	68	Apr-Sept	72	126	92
BEAVERHEAD RIVER						
Barratts (at)	133	65	Apr-Sept	170	222	204
	111	66	Apr-July	130	169	151
BIG HOLE RIVER						
Melrose (near)	649	80	Apr-Sept	745	808	811
	600	80	Apr-July	699	761	748
JEFFERSON RIVER						
Sappington (at)	849	73	Apr-Sept	1006	1135	1160
	754	74	Apr-July	921	1025	1025
MADISON RIVER						
West Yellowstone(near)	181	84	Apr-Sept	207	248	216
	130	84	Apr-July	158	192	165
Grayling (near) (2)	382	84	Apr-Sept	434	563	457
	302	83	Apr-July	347	458	363
McAllister (near) (3)	671	86	Apr-Sept	718	961	782
	541	85	Apr-July	577	796	633
GALLATIN RIVER						
Gateway (near)	397	82	Apr-Sept	404	596	485
	342	83	Apr-July	345	524	413
Logan (at)	396	75	Apr-Sept	412	745	528
	339	75	Apr-July	379	665	452
MISSOURI RIVER						
Toston (at) (3)	1904	76	Apr-Sept	2139	2895	2517
	1611	74	Apr-July	1868	2554	2165
Fort Benton (at) (4)	2956	78	Apr-Sept	3726	3912	3767
	2192	78	Apr-July	3259	3382	3205
Loma (at) (4)	3605	79	Apr-Sept	5035	4562	4551
	3077	78	Apr-July	4515	3996	3919
Zortman (near) (4)	3873	78	Apr-Sept	5886	5116	4939
	3296	78	Apr-July	5298	4440	4229
Ft. Peck Dam(below)(5)	3756	77	Apr-Sept	5798	5223	4878
	3254	76	Apr-July	5353	4658	4267

(1) Observed flow plus change in storage in Lima Reservoir

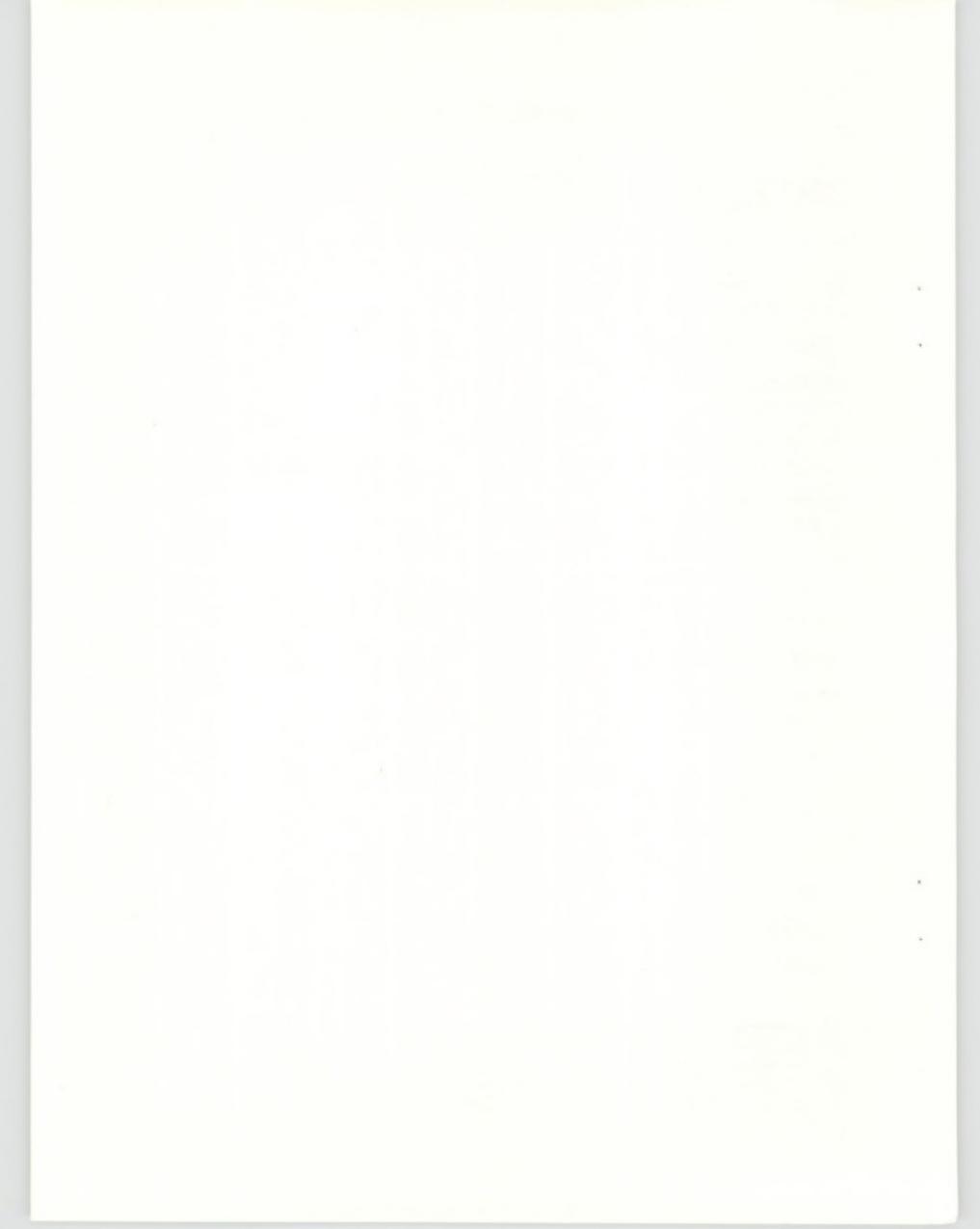
(2) Observed flow plus change in storage in Hebgen Lake

(3) Observed flow plus change in storage in Hebgen and Ennis Lakes

(4) Observed flow plus change in storage in Canyon Ferry

(5) Observed flow plus change in storage in Canyon Ferry and Ft. Peck Reservoirs

(*) Preliminary data furnished by U. S. Geological Survey, subject to correction



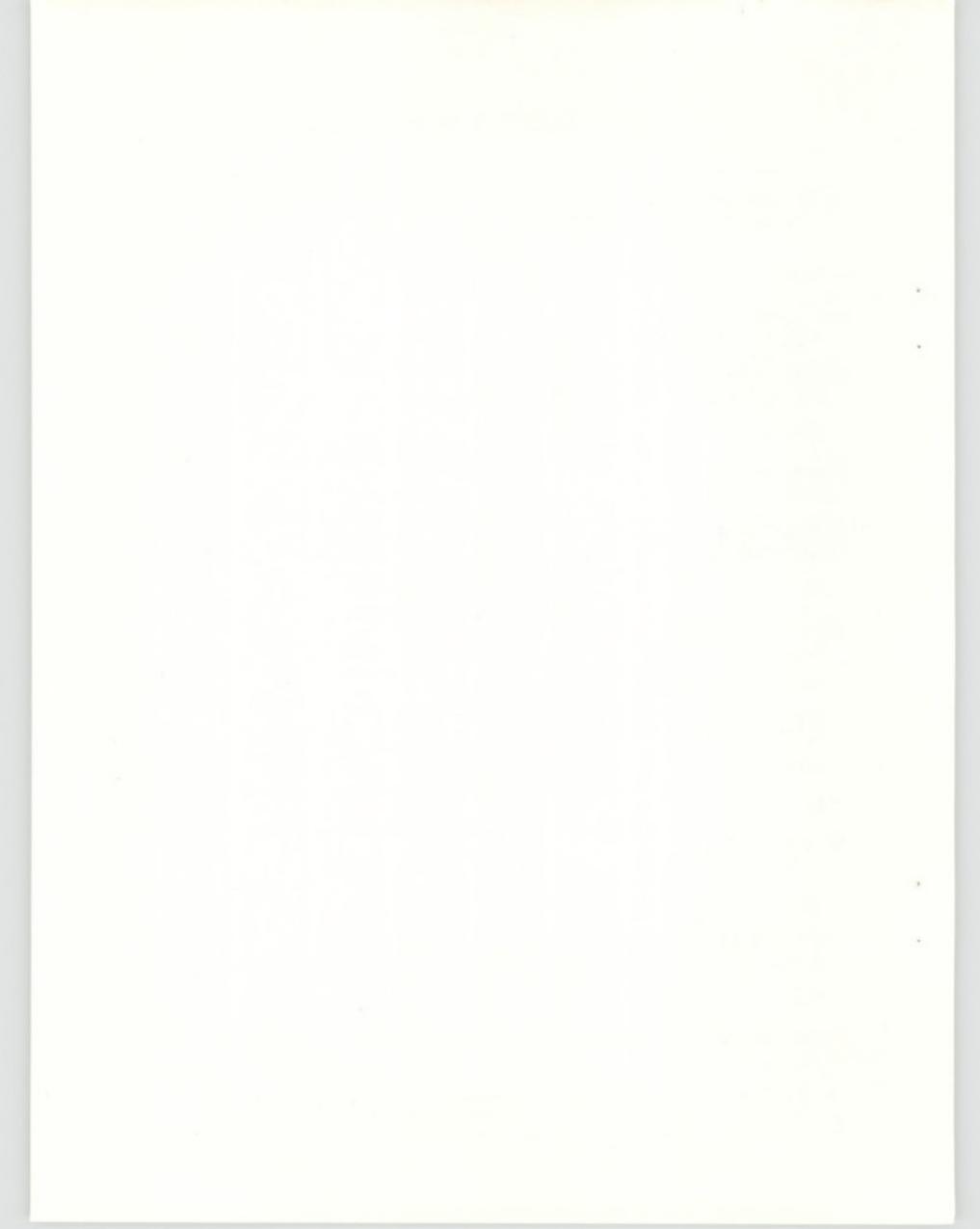
MONTANA STREAM-FLOW FORECASTS APRIL 1, 1955

UPPER MISSOURI RIVER IN MONTANA	Seasonal Stream-Flow in Thousands of Acre Feet					10-Yr. Avg.	1943-52
	FORECAST RUNOFF	% 10-Yr Ave.	FORE- CAST PERIOD	Measured Runoff*	1953	1952	
SUN RIVER							
Vaughn (near) (6)	379	83	Apr-Sept	790	312	458	
	324	75	Apr-July	745	284	431	
MARIAS RIVER							
Shelby (near)	512	85	Apr-Sept	934	476	635	
	498	86	Apr-July	871	435	582	
Brinkman (near)	552	86	Apr-Sept	1025	534	641	
	508	86	Apr-July	963	491	587	
JUDITH RIVER							
Utica (near)	31.3	68	Apr-Sept	38	47	46	
	28.7	68	Apr-July	36	45	42	
MUSSELSHELL RIVER							
Harlowton (at)	74	75	Apr-Sept	74	118	99	
	69	76	Apr-July	66	109	91	
Mosby (at)	132	74	Apr-Sept	124	172	178	
	124	74	Apr-July	119	166	168	
YELLOWSTONE RIVER							
Corwin Springs (at)	1714	85	Apr-Sept	1649	2171	2012	
	1430	86	Apr-July	1366	1867	1669	
Livingston (near)	1975	85	Apr-Sept	1820	2417	2315	
	1631	85	Apr-July	1496	2052	1908	
Billings (at)	3837	87	Apr-Sept	3367	4612	4103	
	3295	88	Apr-July	2854	4016	3758	
Miles City (at)	6157	88	Apr-Sept	4648	6265	6297	
	5289	88	Apr-July	3905	5311	5954	
Sidney (near)	6269	86	Apr-Sept	4716	6857	7290	
	5432	86	Apr-July	4053	6034	6297	
SHIELDS RIVER							
Wilsall (near)	42	93	Apr-Sept	61	50	45	
	39	93	Apr-July	58	48	43	
Clyde Park (at)	110	90	Apr-Sept	130	162	122	
	102	90	Apr-July	122	154	113	
CLARK FORK RIVER							
Chance (at)	527	84	Apr-Sept	519	576	629	
	472	85	Apr-July	469	517	557	
Edgar (at)	558	84	Apr-Sept	528	613	665	
	493	85	Apr-July	467	538	581	
Hyalite Cr. R.S. (at) (7)	35.5	93	Apr-Sept	33	41	38	
	30.3	95	Apr-July	29	34	32	

(6) Observed flow plus change in storage in Gibson, Willow Crk and Pishkin Res.

(7) Observed flow plus change in storage in Hyalite Reservoir

(*) Preliminary data furnished by U. S. Geological Survey, subject to correction



MONTANA STREAM-FLOW FORECASTS APRIL 1, 1955

Seasonal Stream-Flow in Thousands of Acre Feet						
MISSOURI RIVER BASIN YELLOWSTONE RIVER TRIB- UTARIES IN WYOMING	FORECAST RUNOFF	%	FORE- CAST PERIOD	Measured 1953	Runoff* 1952	10-Yr. Ave. 1943-52
		10-Yr. Avg.				
WIND RIVER						
Riverton (at) (8)			Apr-Sept	291	374	575
BIG HORN RIVER						
Boysen Dam (below) (9)	647	60	Apr-Sept	618	889	1079
Kane (at)	820	54	Apr-Sept	804	1282	1518
St. Xavier (near (10))	1290	52	Apr-Sept	984	1286	2104
BULL LAKE CREEK						
Lenor (near)	145	72	Apr-Sept	159	203	200
POPO AGIE RIVER						
Riverton (near)	280	70	Apr-Sept	218	450	400
GREYBULL RIVER						
Meeteetse (at)	142	61	Apr-Sept	157	278	233
Basin (near)	41	35	Apr-Sept	37	173	116
SHOSHONE RIVER						
Buffalo Bill Dam (be) (12)	560	70	Apr-Sept	582	697	802
Byron (at) (12)	340	50	Apr-Sept	356	486	628
TONGUE RIVER						
Dayton (near)			Apr-Sept	96	104	115
Acme (near)			Apr-Sept	200	239	274
Decker (near) Montana (13)			Apr-Sept	249	283	
POWDER RIVER						
Arvado (at)			Apr-Sept	76	125	143
Moorehead (at) Montana			Apr-Sept	154	235	285
Locate (at) Montana			Apr-Sept	208	303	361
MIDDLE FORK POWDER RIVER						
Kaycee (near)			Apr-Sept	27	36	69
NORTH FORK POWDER RIVER						
Mayoworth (near)			Apr-Sept	14	17	20
CLEAR CREEK						
Buffalo (near)			Apr-Sept	27	35	40
Arvado (near)			Apr-Sept	72	100	126

(8) Observed flow plus storage in Bull Lake and Pilot Butte Reservoirs

(9) Observed flow plus storage in Boysen Reservoir

(10) Observed flow plus storage in Boysen and Buffalo Bill Reservoirs

(11) Observed flow plus storage in Bull Lake Reservoir

(12) Observed flow plus storage in Buffalo Bill Reservoir

(13) Observed flow plus storage in Tongue Reservoir

(*) Preliminary data furnished by U. S. Geological Survey, subject to revision

MONTANA STREAM-FLOW FORECASTS APRIL 1, 1955

UPPER COLUMBIA RIVER IN MONTANA	FORECAST RUNOFF	Seasonal Stream-Flow in Thousands of Acre Feet				10-Yr. Avg. 1943-52
		% 10-Yr Avg.	FORE- CAST PERIOD	Measured	Runoff*	
				1953	1952	
CLARK FORK RIVER						
Bonner (above) (14)	671	78	Apr-Sept	808	833	853
	591	78	Apr-July	718	749	751
	508	78	Apr-June	619	673	644
Missoula (above)	1317	71	Apr-Sept	1887	1782	1841
	1178	71	Apr-July	1695	1619	1644
	1025	72	Apr-June	1435	1468	1417
Missoula (below)	2570	75	Apr-Sept	3158	3268	3392
	2313	76	Apr-July	2879	3011	3080
	2050	77	Apr-June	2370	2722	2652
St. Regis (at)	3464	76	Apr-Sept	4071	4338	4524
	3112	76	Apr-July	3701	3972	4110
	2717	80	Apr-June	3054	3572	3399
Plains (near) (15)	9693	80	Apr-Sept	11880	11550	12117
	8700	78	Apr-July	10950	10740	11096
	7242	76	Apr-June	9062	9611	9502
Cabinet Gorge (at)(15)	10987	81	Apr-Sept	13002	12554	13557
	9984	81	Apr-July	11767	11613	12388
	8472	80	Apr-June	9720	10336	10584
BLACKFOOT RIVER						
Bonner (near)	616	65	Apr-Sept	1078	949	988
	582	65	Apr-July	977	869	893
	502	65	Apr-June	816	792	773
BITTERROOT RIVER						
Darby (near)	502	84	Apr-Sept	557	608	593
	465	84	Apr-July	533	567	551
	409	84	Apr-June	430	517	484
At Mouth (16)	1252	81	Apr-Sept	1271	1186	1224
	1168	81	Apr-July	1184	1392	1137
	1031	83	Apr-June	935	1254	1235
FLATHEAD RIVER N. Fk.						
Columbia Falls (near)	1638	88	Apr-Sept	2049	1745	1850
	1495	88	Apr-July	1875	1605	1682
	1285	89	Apr-June	1510	1115	1134
Columbia Falls (at)(17)	5152	84	Apr-Sept	6523	5733	6111
	4802	84	Apr-July	6075	5362	5665
	4209	86	Apr-June	5013	4804	4880
Polson (near) (15)	5977	83	Apr-Sept	7565	7029	7193
	5351	79	Apr-July	7081	6615	6770
	4276	74	Apr-June	5880	5930	5798

(14) Difference in observed flow, Clark Fork above Missoula & Blackfoot at Bonner

(15) Observed flow plus change in storage in Flathead Lake & Hungry Horse Res.

(16) Difference in observed flow, Clark Fork above and below Missoula

(17) Observed flow plus change in storage in Hungry Horse Reservoir

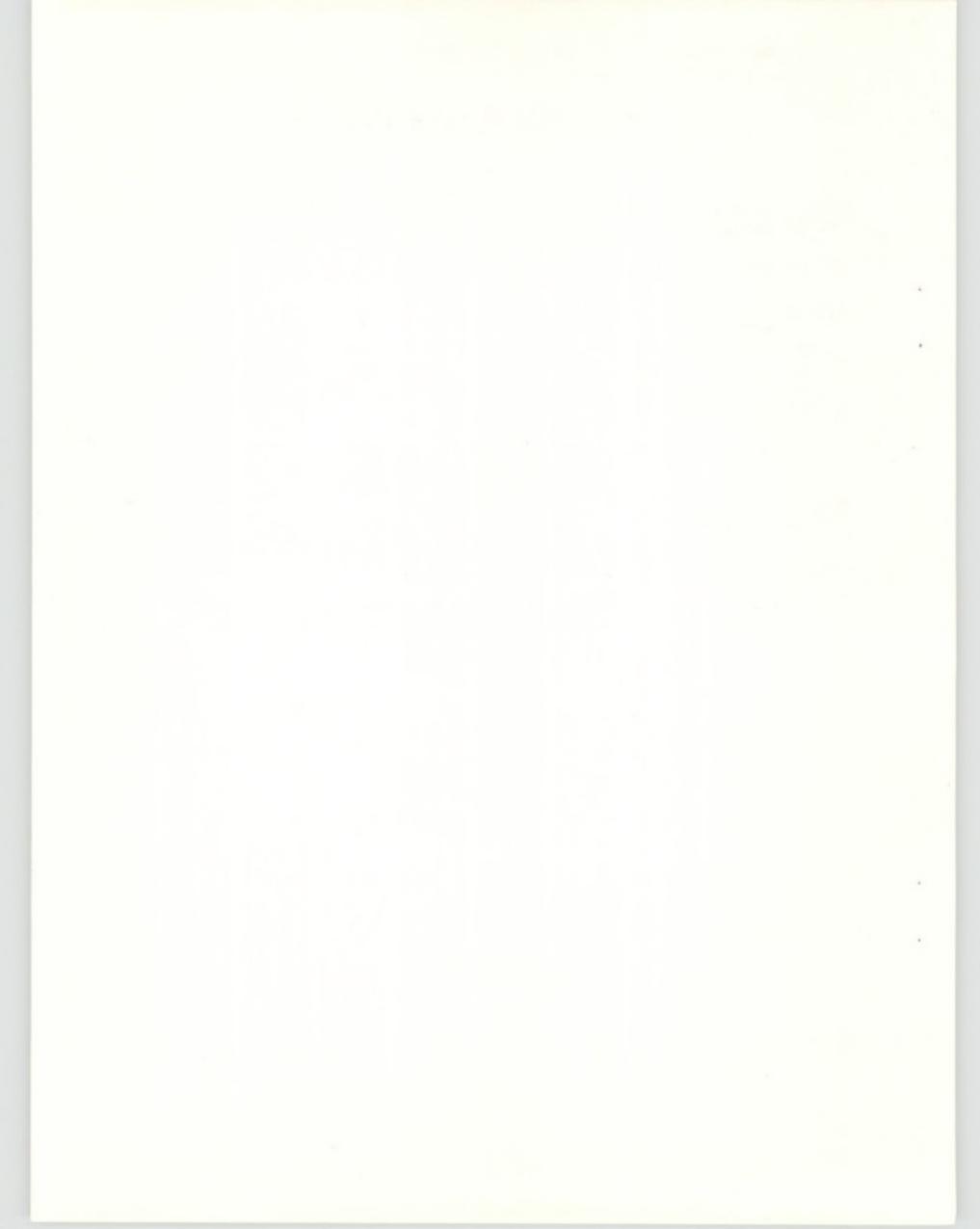
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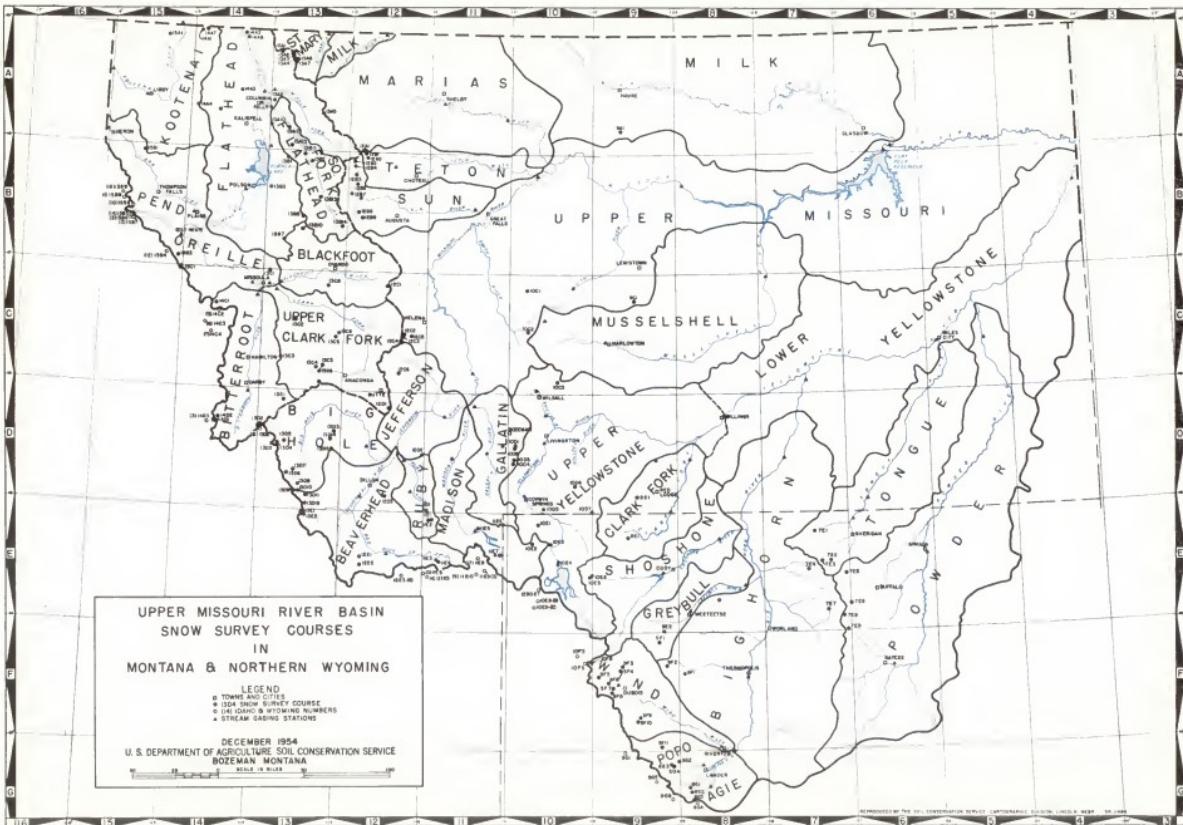
MONTANA STREAM-FLOW FORECASTS APRIL 1, 1955

UPPER COLUMBIA RIVER IN MONTANA	Seasonal Stream-Flow in Thousands of Acre Feet					
	FORECAST RUNOFF	% 10-Yr AVG.	FORE- CAST PERIOD	Measured 1953	Runoff* 1952	10-Yr. Avg. 1943-52
MIDDLEFORK FLATHEAD RIVER						
West Glacier (near)	1565	86	Apr-Sept	2067	1682	1317
	1436	85	Apr-July	1926	1575	1686
	1246	86	Apr-June	1581	1408	1442
SOUTHFORK FLATHEAD RIVER						
Columbia Falls(near)(17)	1850	82	Apr-Sept	2277	2067	2267
	1757	82	Apr-July	2172	1980	2147
	1565	83	Apr-June	1846	1824	1879
SWAN RIVER						
Big Fork (near)	620	96	Apr-Sept	604	619	644
	551	97	Apr-July	534	556	570
	459	99	Apr-June	416	481	466

(17) Observed flow plus change in storage in Hungry Horse Reservoir

(*) Preliminary data furnished by U. S. Geological Survey, subject to correction





INDEX TO MONTANA & NORTHERN WYOMING SNOW COURSES

Location											Location											
Drainage Basin and Course Name	Montana Number	Ele.	Lat. Long.	Base Elev.	Recent Elev.	Measuring Date	Measured By	Drainage Basin and Course Name	Montana Number	Ele. Lat. Long.	Base Elev.	Recent Elev.	Measuring Date	Measured By								
MISSOURI RIVER DRAINAGE																						
(ROCKY MOUNTAIN)																						
Lakeview Ridge	1383	7600	27	118.5	26	1958	3,4,5	9	Blue Ridge	862	9500	25	318	1028	1959	8,3,4,5	12					
Gold Creek	1384	6700	26	118.5	25	1958	3,4,5	9	Grandpa Meadow	864	9000	19	308	1028	1956	2,3,4,5	12					
Laurel Canyon	1385	8500	25	118.5	24	1958	3,4,5	9	Laceys Creek	956	9000	20	308	1028	1960	3,4,5	12					
Linckle	1387	5500	25	118	24	1958	3,4,5	1	Southgate Plateau	823	9500	15	308	1028	1957	2,3,4,5	12					
White Pine Ridge	1388	8500	25	118	24	1958	3,4,5	1	South Pass	803	9100	13	308	1028	1959	2,3,4,5	12					
(ROCKY MOUNTAIN)																						
MISSOURI RIVER DRAINAGE CONT.																						
(ROCKY MOUNTAIN)																						
Cloudy Dick	1389	7600	12	88	108	1958	3,4,5	1	Blue Ridge	862	9500	25	318	1028	1959	8,3,4,5	12					
Gold Creek	1390	6700	11	88	108	1958	3,4,5	1	Grandpa Meadow	864	9000	19	308	1028	1956	2,3,4,5	12					
Land Creek	1391	8500	10	88	108	1958	3,4,5	1	Laceys Creek	956	9000	20	308	1028	1960	3,4,5	12					
Terrill Creek	1392	6500	10	88	108	1958	3,4,5	1	Southgate Plateau	823	9500	15	308	1028	1957	2,3,4,5	12					
Trout Creek	1393	7600	10	88	108	1958	3,4,5	1	South Pass	803	9100	13	308	1028	1959	2,3,4,5	12					
Dealey Justice	1394	6800	27	88	108	1958	3,4,5	1	Wood River	971	8500	28	308	1028	1959	2,3,4,5	12					
(ROCKY MOUNTAIN)																						
(ROCKY MOUNTAIN)																						
Big Hole Pass	1395	7600	26	35	108	1958	3,4,5	1	Big Hole River	992	8500	6	318	1028	1956	2,3,4,5	12					
Big Hole Pass-Below	1396	6700	26	35	108	1958	3,4,5	1	Beavers Mill	1085	7000	17	528	1028	1957	2,3,4,5	12					
Big Horn Pass	1397	8500	15	35	108	1958	3,4,5	1	Bell Creek	987	8500	10	528	1028	1955	1,2,3,4,5	1					
Big Horn Pass	1398	7500	4	35	108	1958	3,4,5	1,2	Blacktail Creek	987	8500	10	528	1028	1955	1,2,3,4,5	1					
Jahns Creek	1399	7600	25	35	108	1958	3,4,5	1	Timber Creek	982	8500	15	528	1028	1954	1,2,3,4,5	12					
Shoshone River	1400	7600	25	35	108	1958	3,4,5	1	Trout Creek	984	8500	15	528	1028	1953	1,2,3,4,5	1					
Mt. Rose Lake	1397	6700	10	35	108	1958	3,4,5	1	Wood River	971	8500	28	308	1028	1959	2,3,4,5	12					
(ROCKY MOUNTAIN)																						
(WYOMING)																						
Big Hole Pass	1401	7600	26	35	108	1958	3,4,5	1	Big Horn River	1085	7000	17	528	1028	1956	2,3,4,5	12					
Big Horn Pass	1402	8500	15	35	108	1958	3,4,5	1	East Entrance	1085	7100	12	528	1028	1957	1,2,3,4,5	12					
Big Horn Pass	1403	6500	15	35	108	1958	3,4,5	1	Slyer Pass	1085	7100	12	528	1028	1956	2,3,4,5	12					
(WYOMING)																						
MISSOURI RIVER																						
(ROCKY MOUNTAIN)																						
Anderson Mts.	1391	7000	16	35	129	1958	3,4,5	1	Big Goose	782	7700	4	538	008	1945	2,3,4,5	1					
Elk Horn	1392	8500	15	35	129	1958	3,4,5	1	Burgess Pass	781	7900	6	538	008	1956	2,3,4,5	1					
Elk Horn	1393	6500	15	35	129	1958	3,4,5	1	Cave Pass	781	8000	12	538	008	1955	2,3,4,5	1					
Elk Horn	1394	6500	15	35	129	1958	3,4,5	1	Deer Creek	781	8000	12	538	008	1954	2,3,4,5	1					
Elk Horn	1395	6500	15	35	129	1958	3,4,5	1	Dick Creek	782	8000	12	538	008	1953	2,3,4,5	1					
(WYOMING)																						
MISSOURI RIVER																						
(ROCKY MOUNTAIN)																						
Big Hole Pass	1404	7600	22	128	1958	1,2,3,4,5	2	Big Horn River	1085	6000	1	298	12M	1937	1,5,58	1						
Big Hole Pass	1405	6700	22	128	1958	1,2,3,4,5	2	Big Horn River	1081	6000	1	298	12M	1937	1,5,58	1						
Big Hole Pass	1406	7500	14	128	1958	1,2,3,4,5	2	Big Horn River	1083	6000	1	298	12M	1937	1,5,58	1						
Big Hole Pass	1407	6500	14	128	1958	1,2,3,4,5	2	Big Horn River	1084	6000	1	298	12M	1937	1,5,58	1						
Big Hole Pass	1408	7500	14	128	1958	1,2,3,4,5	2	Big Horn River	1085	6000	1	298	12M	1937	1,5,58	1						
Big Hole Pass	1409	6500	14	128	1958	1,2,3,4,5	2	Big Horn River	1086	6000	1	298	12M	1937	1,5,58	1						
(WYOMING)																						
MISSOURI RIVER																						
(ROCKY MOUNTAIN)																						
Freight Creek	1411	6500	13	208	10M	1958	3,4,5	1	Big Horn River	1081	6000	1	298	12M	1937	1,5,58	1					
Freight Creek	1412	6500	13	208	10M	1958	3,4,5	1	Big Horn River	1082	6000	1	298	12M	1937	1,5,58	1					
Freight Creek	1413	6500	13	208	10M	1958	3,4,5	1	Big Horn River	1083	6000	1	298	12M	1937	1,5,58	1					
Freight Creek	1414	6500	13	208	10M	1958	3,4,5	1	Big Horn River	1084	6000	1	298	12M	1937	1,5,58	1					
Freight Creek	1415	6500	13	208	10M	1958	3,4,5	1	Big Horn River	1085	6000	1	298	12M	1937	1,5,58	1					
(WYOMING)																						
MISSOURI RIVER																						
(ROCKY MOUNTAIN)																						
Grasshopper	1403	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1081	6000	1	298	12M	1937	1,5,58	1					
Grasshopper	1404	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1082	6000	1	298	12M	1937	1,5,58	1					
Grasshopper	1405	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1083	6000	1	298	12M	1937	1,5,58	1					
Grasshopper	1406	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1084	6000	1	298	12M	1937	1,5,58	1					
Grasshopper	1407	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1085	6000	1	298	12M	1937	1,5,58	1					
Grasshopper	1408	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1086	6000	1	298	12M	1937	1,5,58	1					
Grasshopper	1409	7000	19	98	98	1958	1,2,3,4,5	1,12	Big Horn River	1087	6000	1	298									

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

Summary of snow survey data by tributary Watersheds April 1, 1955

TRIBUTARY BASINS	No. of Courses Averaged	No. Years Record	Snow water equivalent 1955 expressed as per cent of		
			1954	1953	AVERAGE

MISSOURI RIVER BASIN IN MONTANA

JEFFERSON RIVER

Rock-Beaverhead	4	7	77	65	63
Horse Prairie	6	7	74	63	64
Big Hole	7	7-16	82	72	78
Wise River	3	7-16	96	96	98

MADISON RIVER

	4	16-19	80	90	88
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GALLATIN RIVER

	5	16-25	97	104	97
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MISSOURI MAIN STEM

	10	14-19	85	99	94
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Teton River	3	7	66	85	83
Sun River					
Marias River	1	19	65	111	102
Milk River	1	13	88	117	100

Musselshell River	1	17	76	118	96
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UPPER YELLOWSTONE (MONTANA)

Shields River

<u>LOWER YELLOWSTONE (WYOMING)</u>	9	8-25	76	92	92
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Clark Fork River

Shoshone River

Wind River

Popo Agie River

Owl Creek

Greybull River

Tongue River

Shell Creek

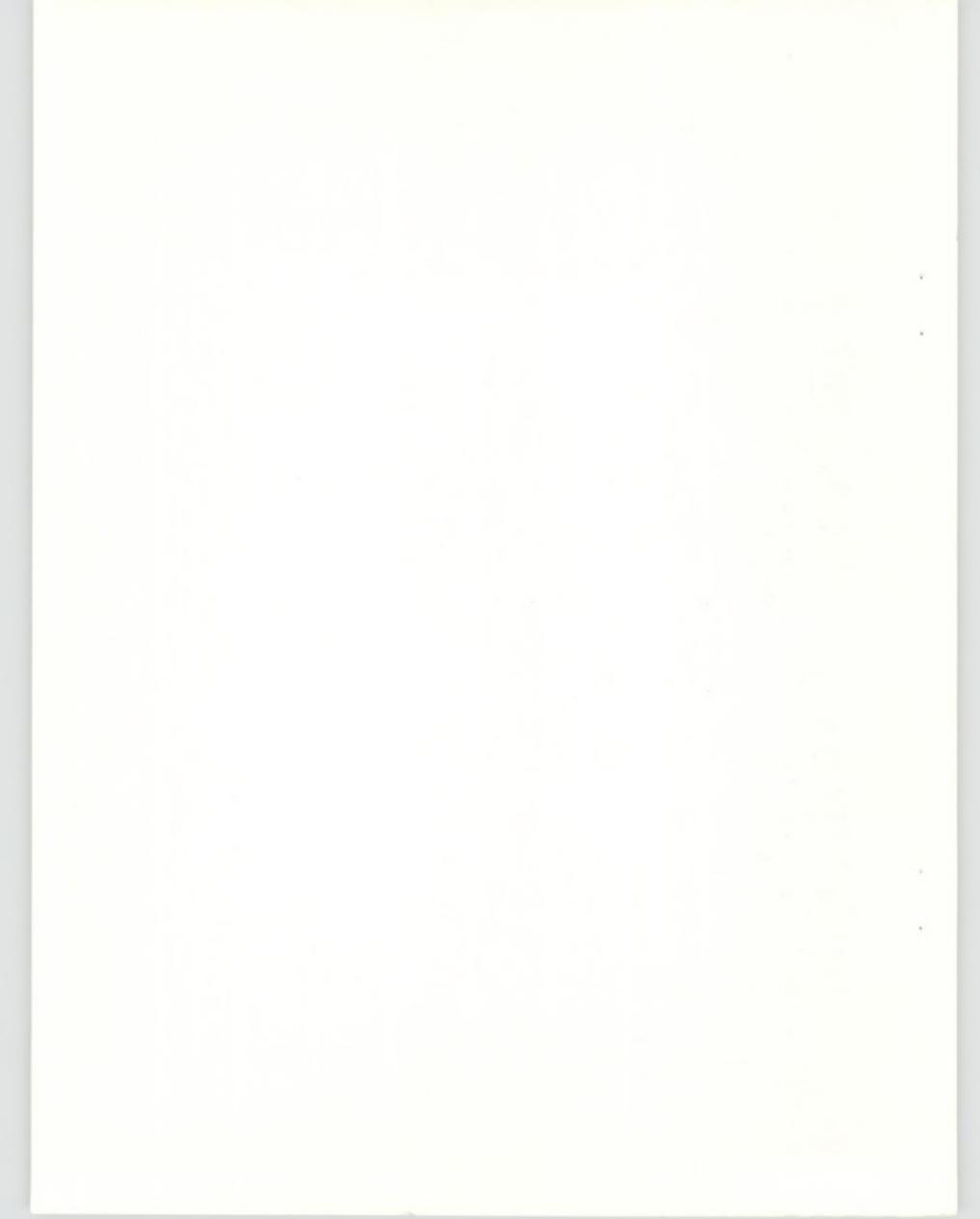
Norwood Creek

Clear Creek (Powder River)

Crazy Woman Cr. (Powder River)

COLUMBIA RIVER BASIN IN MONTANA

KOOTENAI RIVER ABOVE LIBBY, MONT.	16	4-20	68	112	99
FLATHEAD RIVER	21	4-19	72	100	86
UPPER CLARK FORK	21	9-19	81	93	95
BITTERROOT RIVER	4	6-18	106	116	127
PEND OREILLE	4	16-18	71	91	104



MONTANA SNOW SURVEYS - APRIL 1, 1955

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	SNOW COVER MEASUREMENTS				Past Record		Y ea r co d
				Snow Depth (In.)	Water Content (In.)	1955	Water Content (In.)	1954	1953	

JEFFERSON RIVER

(Rock-Beaverhead)

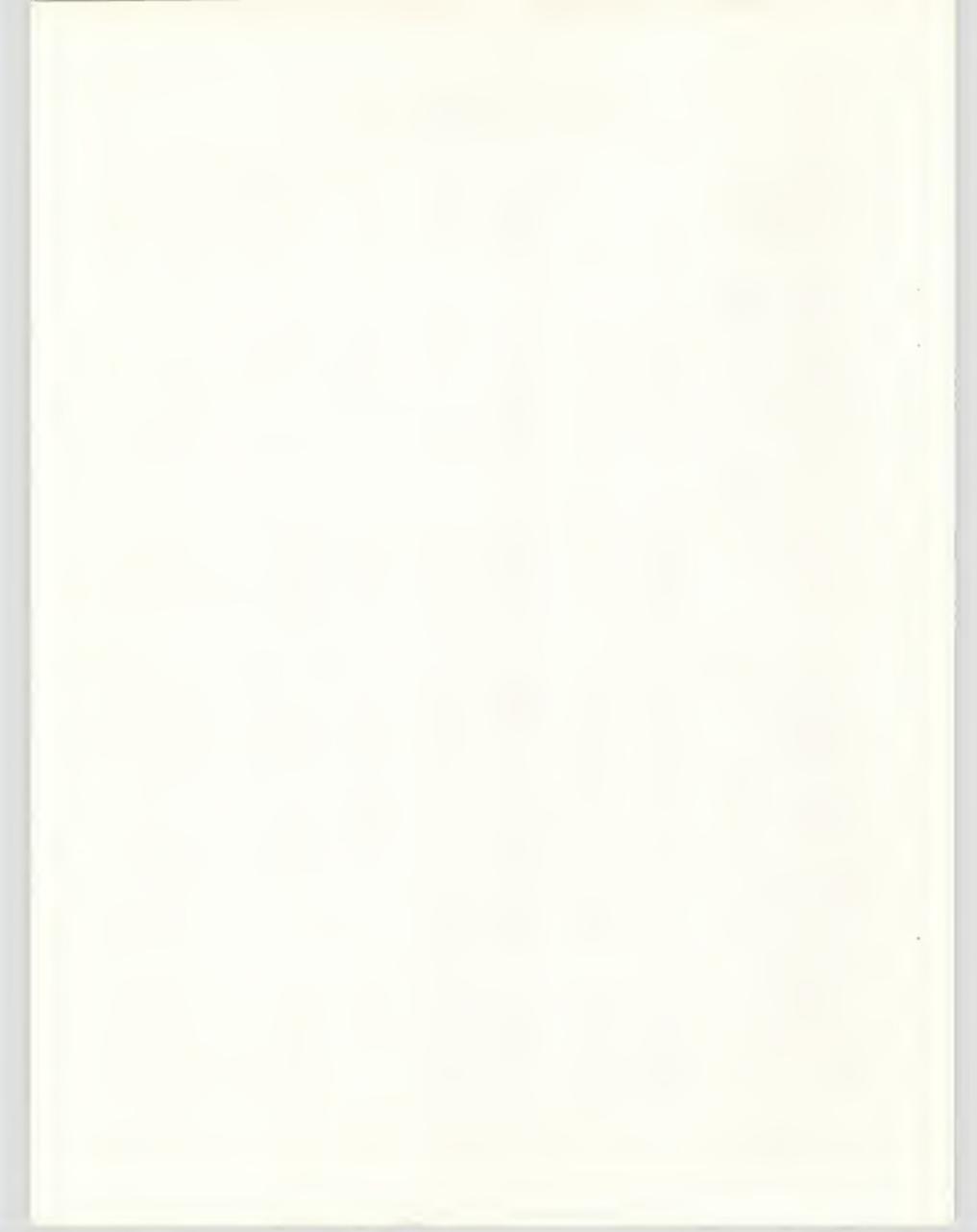
Lakeview Ridge	11E3	7400	3/31	32	7.6	8.5	9.8	10.2	10.2	7
Lakeview Canyon	11E4	6930	3/31	35	4.9	8.7	10.4	11.3	11.3	7
Limekiln	12F2	6950	3/15	9	1.5	1.0	2.4	2.0	2.0	7
White Pine Rdg	12E1	8850	3/15	22	5.2	6.8	7.0	7.0	7.0	7
*Kilgore	11E12	6200				8.3	7.2	10.7	10.7	18
*Camp Creek	12F3	6800	3/28	30	7.7	10.0	10.6	9.9	9.9	19
*Blue Ldg Mine (Horse Prairie)	11E11	6700				15.6	15.2	16.5	16.5	17
Bloody Dick	13D10	7600	3/18	31	7.6	11.2	14.2	12.8	12.8	7
Gold Stone	13D9	8100	3/18	40	10.8	14.4	19.0	16.8	16.8	7
Lemhi Pass	13E1	7400	3/16	26	6.9	7.6	8.2	10.3	10.3	7
Terrell Creek	13D12	6650	3/16	16	3.0	4.6	5.1	4.9	4.9	7
Trail Creek	13E2	7090	3/16	28	7.1	9.0	8.1	9.3	9.3	7
Selway Junction	13D11	6800	3/16	25	5.8	9.2	11.0	9.8	9.8	7
(Big Hole)										
Big Hole Pass	13D3	7440	3/21	47	12.9	18.7	19.3	20.0	20.0	7
Big Hole Pass(B1)	13D4	6900	3/21	45	13.3	13.6	16.5	16.0	16.0	7
East Boundary	13D5	6700	3/21	28	7.4	7.2	10.3	9.7	9.7	7
Gibbons Pass	13D2	7100	3/31	64	21.4	24.6	28.0	23.8	23.8	16
Jahnke Creek	13D8	7340	3/18	30	8.0	12.2	14.4	12.6	12.6	7
Miner Forks	13D6	7300	3/19	38	10.6	13.6	14.4	13.6	13.6	7
Miner Lake	13D7	6720	3/19	28	7.5	9.8	9.6	8.8	8.8	10
*Moose Creek (Wise River)	13D16	6200	3/31	50	14.9	17.3	22.6	16.4	16.4	18
Anderson Meadow	13D14	7000	3/22	31	8.3	8.0	8.6	9.1	9.1	7
Elk Horn	13D15	8150	3/25	36	8.8	11.2	10.5	9.6	9.6	16
Wise River	13D13	6300	3/22	22	7.0	5.8	6.0	5.9	5.9	7
(Ruby River)										
Cottonwood	11E2	5900				9.1	--	10.3	10.3	6
Cottonwood (Up)	11E1	8100				9.4	--	11.1	11.1	6
Flashlight	12D3	6950	4/5	38	8.1	7.8	7.4	6.0	6.0	10
Tobacco Root	12D2	6900				7.3	11.7	11.2	11.2	7
Vigilante	11D1	6125				1.5	0.0	1.2	1.2	7

*Adjacent Basin

MONTANA SNOW SURVEYS - APRIL 1, 1955

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	SNOW COVER MEASUREMENTS					Y R ecorda rs
				1955	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.)	Average	
				1954	1953				
<u>MADISON RIVER</u>									
Hebgen	11E5	6550	4/1	33	9.5	12.0	12.2	12.5	19
W. Yellowstone	11E7	6700	4/1	37	10.7	12.8	10.9	11.7	18
21-Mile	11E6	7150	4/1	48	15.2	19.6	16.8	17.3	18
*Big Springs	11E9	6500	3/28	61	21.9	24.7	21.7	21.6	19
*Island Park	11E10	3600	3/29	52	16.2	16.8	16.2	16.3	19
*Valley View	11E8	6500	3/28	44	13.2	15.4	15.6	15.5	19
Norris Basin	10E2	7500	4/1	35	9.5	11.6		9.5	16
<u>GALLATIN RIVER</u>									
Devil's Slide	10D4	8100	3/28	58	18.6	20.0	18.8	20.2	16
Hood Meadow	10D3	6600	3/28	32	8.8	8.8	7.6	8.7	16
Mystic Lake	10D2	6600	4/2	30	8.8	7.2	6.6	7.6	25
New World	10D1	6700	4/2	36	11.2	8.8	9.8	10.1	16
21-Mile	11E6	7150	4/1	48	15.2	19.6	16.8	17.3	18
<u>MISSOURI RIVER MAIN STEM</u>									
Chessman Res.	12C5	6200	3/30	23	5.8	4.8	4.5	4.8	19
Crystal Lake	9C1	6100	4/1	29	9.4	11.2	10.2	12.4	14
Grasshopper	10C2	7000	4/1	23	5.2	6.8	4.4	5.4	17
Kings Hill	10C1	7950	3/30	42	11.6	11.0	11.6	13.4	16
Picnic Grounds	13C6	6500	4/1	16	4.1	5.2	--	4.5	9
Pipestone Pass	12D1	7200	4/2	33	6.0	4.9	6.3	5.8	16
Stemple Pass	12C1	6900	3/31	36	9.2	13.2	10.4	10.0	16
Tennmile, Lower	12C2	6250	4/1	27	7.0	7.6	6.6	6.6	19
Tennmile, Middle	12C3	6800	4/1	37	10.1	11.0	11.6	10.6	19
Tennmile, Upper	12C4	8000	4/1	43	12.7	13.5	11.0	13.4	19
(Teton River)									
Fright Creek	12A1	6000	3/27	45	12.6	25.3	21.4	20.1	7
Waldron Creek	12B2	5600	3/26	31	8.0	12.0	6.2	8.7	7
West Fork	12B1	6000	3/26	56	20.2	24.8	20.6	20.6	7
(Sun River)									
Benchmark	12B8	5500	3/28	37	11.8	17.5	7.5	11.8	7
Cabin Creek	12B6	5400	4/1	24	7.8	11.9	5.8	8.3	6
5-Bull	12B9	5600	3/28	30	7.9	13.0	5.2	9.1	7
Gates Park	12B5	5300	4/1	33	8.4	19.0	8.7	12.8	6
Goat Mountain	12B7	7000	3/31	40	11.3	17.9	10.4	10.8	16
Wrong Ridge	12B3	6800	4/1	54	18.6	33.0	20.8	25.4	6
Wrong Creek	12B4	5700	4/1	44	14.3	25.4	11.7	17.6	6

*Adjacent Basin



MONTANA SNOW SURVEYS - APRIL 1, 1955

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	SNOW COVER MEASUREMENTS					Y R E C O D	
				1955	Snow Depth (In.)	Water Content (In.)	Past Record			
							1954	1953	Average	
<u>MISSOURI RIVER MAIN STEM (Cont'd)</u>										
(Marias River) Marias Pass	13A5	5250	3/31	55	18.6	28.6	16.8	18.2	19	
(Milk River) Rocky Boy	9A1	5200	4/1	21	5.4	6.2	4.6	5.4	13	
(Musselshell) Grasshopper	10C2	7000	4/1	23	5.2	6.8	4.4	5.4	17	
<u>UPPER YELLOWSTONE</u>										
Camp Senia	9D1	7890	3/27	21	5.0	7.5	4.8	6.7	17	
Canyon	10B3	7750	3/31	52	14.1	17.8	14.3	16.9	11	
Cooke City	10D7	7400	3/31	28	6.7	10.9	8.8	8.1	18	
Crevice Mt.	10D5	8400	4/2	28	6.7	9.8	9.2	10.0	20	
Independence	10D6	8000				19.4	19.7	18.3	13	
Lake Camp	10E4	7850	4/1	36	8.8	12.4	9.5	10.9	17	
Lodgepole, Wyo.	9E1	8200	3/30	34	10.4	12.7	10.1	11.0	17	
Lupine	10E1	7300	3/31	44	12.2	13.1	9.3	10.4	16	
*Lewis Lake Div.	10E9	7000	3/29	106	38.7	52.3	45.1	41.6	25	
*Astor Creek	10E8	7700	3/29	92	30.6	38.0	33.0	30.9	25	
*Tom Thumb Summit	10E7	7900	3/29	66	20.8	28.0	21.1	26.6	8	
(Shields River) Porcupine	10C3	6500	4/1	25	6.0	7.8	8.2	6.5	16	

*Adjacent Basin



MONTANA SNOW SURVEYS - APRIL 1, 1955

		SNOW COVER MEASUREMENTS							
MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	1955 Snow Depth (In.)	Water Content (In.)	Past Record			Y R e e a r s o r d
						1954	1953	Average	

LOWER YELLOWSTONE (Wind River
above Diversion Dam)

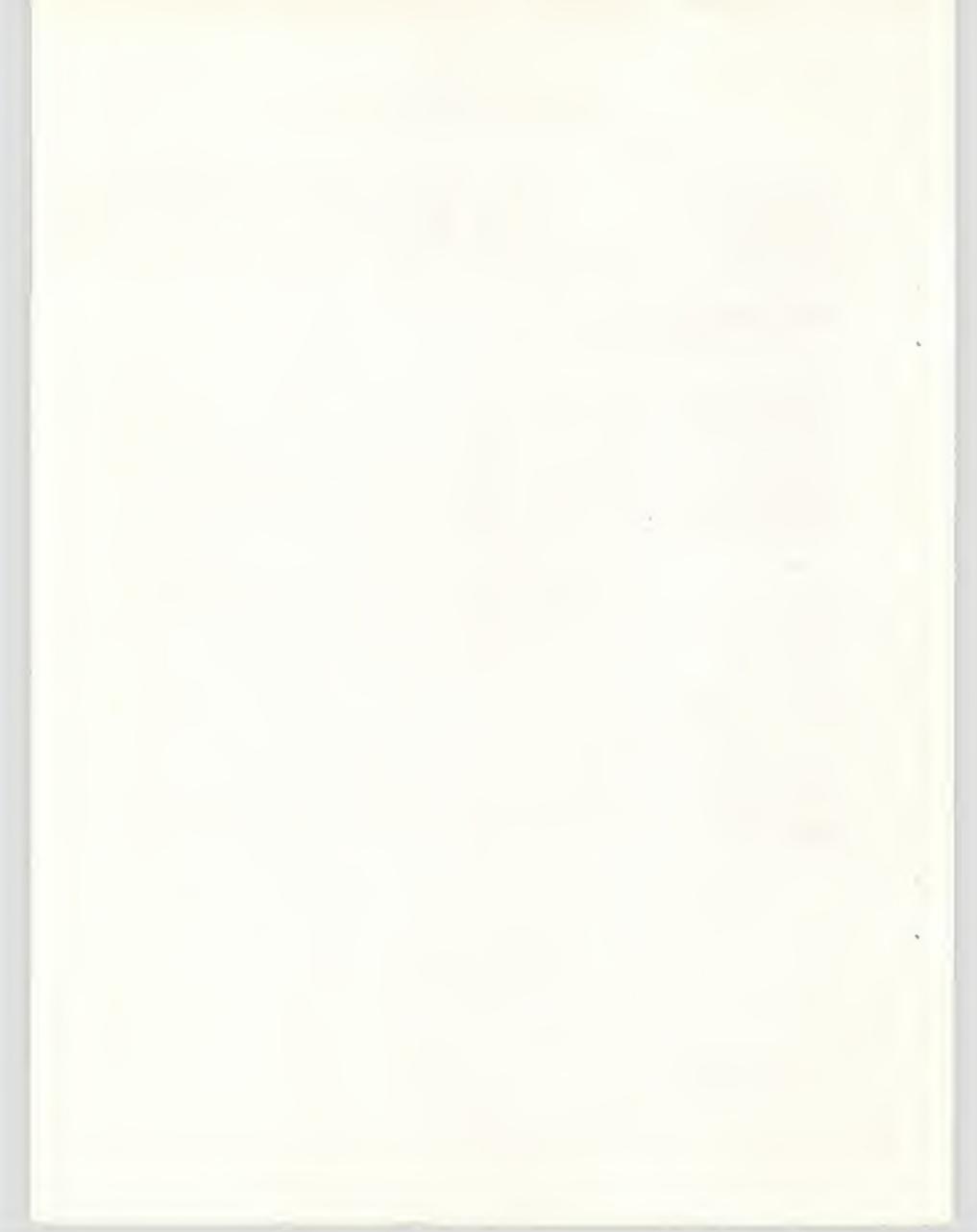
Brooks Lake #3	10F8	9200	3/24	74	22.1	28.5	28.1	25.0	19
Burroughs Creek	9F4	8800	3/26	37	9.7	16.5	14.8	17.4	6
Du Noir	9F6	8750	3/25	28	7.7	9.9	8.2	10.0	14
Geyser Creek	9F7	8500	3/25	28	7.6	9.9	7.5	10.2	6
Little Warm	9F8	9500	3/25	54	14.4	20.1	18.7	21.9	6
Sheridan	9F5	7500	3/24	32	8.7	11.4	8.7	7.5	19
T-Cross Ranch	9F3	8000	3/26	24	5.9	9.5	7.0	7.5	14
*Togwotee Pass	10F9	9600	3/30	83	27.7	34.7	27.3	29.1	19

Dinwoodie	9F10	10000	3/29	37	10.5	13.9	12.7	15.4	5
Dry Creek	9F9	9500	3/29	19	4.7	7.6	6.2	8.3	5
Hobbs Park	9G3	10000	4/2	48	15.1	23.7	14.2	22.1	6
Mosquito Park	9G4	9500	4/2	24	7.7	12.3	6.8	9.7	10
St. Lawrence	9F11	9000	3/31	23	6.6	9.0	5.9	8.1	11
Trout Creek	9G2	8400	4/2	18	5.8	10.3	7.4	7.6	6

POPO AGIE RIVER

Blue Ridge	8G2	9500	4/1	39	12.4	17.4	10.1	12.6	15
Grannier Meadows	8G4	9000	4/1	47	14.4	20.8	12.1	15.5	18
*Larson Creek	9G6	9000	3/26	30	5.4	10.4	6.5	13.3	5
Sawmill Glade	8G1	8500	4/1	26	7.9	11.0	8.1	8.3	15
South Pass	8G3	9000	4/1	48	14.6	21.8	12.3	14.9	15
*Dutch Joe	9G5	8700	3/26	40	8.1	11.9	8.0	8.5	16

*Adjacent Basin



MONTANA SNOW SURVEYS - APRIL 1, 1955

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	SNOW COVER MEASUREMENTS				Y R e a r s r e c o r d	
				1955		Past Record			
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)	Average		
						1954	1953		
<u>BIG HORN RIVER - WYOMING</u>									
Beavers Mill	9F2	8900				--	6.3	7.8	5
Owl Creek	8F1	8700				--	4.7	6.3	5
Timber Creek	9E2	8800	4/2	1 $\frac{1}{4}$	3.5	6.9	4.3	6.0	6
Wood River	9E1	8000	4/1	16	4.1	7.3	3.7	5.5	15
Tensleep R. S.	7E7	8200	4/1	34	6.8	5.5	6.9	7.0	18
Ranger Creek	7E4	8800				8.8	7.8	8.2	17
<u>SHOSHONE RIVER</u>									
East Entrance	10E6	7000	3/29	35	9.8	13.4	8.9	13.3	6
Sylvan Pass	10E5	7100	3/29	41	11.3	15.0	13.5	14.5	17
<u>TONGUE RIVER</u>									
Burgess Jct.	7E1	7900				20.0	13.6	14.8	5
Big Goose	7E2	7700				5.5	4.3	4.4	19
Dome Lake	7E3	9000				11.0	7.2	7.8	4
<u>POWDER RIVER</u>									
Sour Dough	7E6	8500	3/30	35	7.7	9.0	4.6	6.1	18
North Powder	7E9	8500				7.0	5.8	7.5	4
Soldier Park	7E5	8700				5.1	2.6	4.6	5
Muddy Pass	7E8	9700	3/29	36	8.0	9.4	8.0	8.8	5

MONTANA SNOW SURVEYS - APRIL 1, 1955

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	SNOW COVER MEASUREMENTS					Y R e e c o d a	
				1955		Water Content (In.)	Past Record			
				Snow Depth (In.)	Content (In.)		Water Content (In.)	Average		

KOOTENAI RIVER (above Libby,
Montana)

Baree Mt.	15B1	6000	4/1	102	41.0	60.3	45.8	37.9	16
Brush Creek	14A4	5000	3/29	42	11.2	19.1	11.8	12.6	10
Fernie	Can	3500	3/31	36	11.1	16.4	7.0	8.1	17
New Fernie	Can	4100	3/31	50	16.3	23.8	13.7	17.2	4
Ferguson	Can	3000	3/23	49	19.8	29.2	19.7	20.0	17
Kimberley	Can	3800	3/31	25	6.2	12.1	5.0	5.8	17
Marble Canyon	Can	5000	3/31	47	12.1	19.0	11.7	15.3	8
Nelson Creek	Can	3050	3/31	48	15.1	23.0	17.6	14.5	17
Red Mt.	15A1	6000	4/1	50	15.9	26.8	20.0	19.0	16
Sinclair Pass	Can	4500	3/31	21	4.9	10.3	4.3	5.2	18
Smith Creek	16A1	4800	3/30	111	44.3	62.0	53.4	43.9	16
Sullivan Mine	Can	5100	4/1	50	10.5	19.3	14.2	16.3	9
Upper Elk Riv	Can	4400	4/1	30	8.4	11.0	5.4	8.8	7
Gerrard	Can	5100	4/2	71	21.9	20.8	15.9	14.6	20
Gray Creek	Can	5100	3/28	58	18.5	22.5	16.8	20.8	7
Sandon	Can	3500	3/31	40	12.1	18.9	15.1	11.5	17
Blue Bird	14A1	6800	3/28	88	33.9	54.0	40.2	37.3	16
Weasel Divide	14A7	5450	3/28	83	29.1	--	--	--	1

FLATHEAD RIVER

Blue Bird	14A1	6800	3/28	88	33.9	54.0	40.2	37.3	16
Basin Creek	13B14	5000	3/29	32	9.0	16.0	7.0	10.8	4
Big Creek	13B3	6750	4/2	94	36.5	43.1	41.7	40.9	14
Brush Creek	14A4	5000	3/29	42	11.2	19.1	11.8	12.6	10
Cattle Queen	13A1	4700	4/1	75	26.8	49.8	33.2	31.8	16
Coyote Hill	13B10	4200	3/30	35	11.0	13.2	11.7	11.5	8
Désert Mountain	13A2	5600	4/4	43	14.8	18.3	13.5	15.5	16
Goat Mountain	12B7	7000	3/31	40	11.3	17.9	10.4	10.8	16
Hell Roaring Div.	14A3	5700	4/4	40	11.3	37.9	29.2	30.5	13
Holbrook	13B13	4530	3/29	39	11.7	17.3	6.9	10.9	4
Kishenehn	14A2	4300	3/26	30	6.7	15.2	6.0	8.6	9
Kishenehn #3	14A6	4000	3/26	36	10.0	--	--	--	1
Logan Creek	14A5	4300	4/3	31	9.0	11.8	6.3	8.2	16
Marias Pass	13A5	5250	3/31	55	18.6	28.6	16.8	18.2	19
N. Fork Jocko	13B7	6330	3/31	108	40.8	49.0	42.7	41.5	14
Quintonkon	13A13	3800	4/2	44	16.0	16.6	11.1	15.5	4
Spotted Bear Mt.	13B2	7000	3/31	44	11.0	16.8	10.2	16.0	7
Strawberry Lake	13A10	6500	3/31	100	37.5	37.8	33.1	45.3	7
Trinkus Lake	13B1	6500	4/1	90	31.2	37.9	36.3	44.0	7
Trot Lake	13A12	3600	3/30	54	17.0	18.9	13.1	18.7	7
Twin Creeks	13B11	3580	3/30	38	12.0	12.5	6.5	10.4	4
Upper Holland	13B5	7000	3/31	86	30.1	39.2	35.5	39.3	6

MONTANA SNOW SURVEYS - APRIL 1, 1955

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey	SNOW COVER MEASUREMENTS							
				1955		Snow Depth (In.)	Water Content (In.)	Past Record			Year Recorded
				1954	1953			Average			
<u>UPPER CLARK FORK</u>											
Coyote Hill	13B10	4200	3/30	35	10.0	13.2	11.7	11.5	11.3	11.3	8
Chessman Res.	12C5	6200	3/30	23	5.8	4.8	4.5	4.8	4.8	4.8	19
East Fork R.S.	13D1	5400	4/1	31	8.1	7.0	8.3	5.7	5.7	5.7	16
Fish Lake, Idaho	15C2	5000	3/28	109	35.3	38.3	42.4	40.4	40.4	40.4	2
Intergaard	13C4	6150	4/1	24	6.6	8.3	7.9	7.6	7.6	7.6	10
Lubrecht Forest #6	13C8	5400	4/1	16	3.6	4.1	1.4	3.8	3.8	3.8	4
North Fork Jocko	13B7	6330	3/31	107	40.8	49.0	42.7	41.5	41.5	41.5	14
Picnic Grounds	12C6	6500	4/1	16	4.1	5.2	4.9	4.5	4.5	4.5	9
Pipestone Pass	12D1	7200	4/2	33	6.0	4.9	6.3	5.8	5.8	5.8	16
Skalkaho Summit	13C3	7258	3/31	74	25.0	32.8	26.5	25.7	25.7	25.7	16
Slide Rock Mt.	13C2	7100	4/2	50	15.7	17.9	15.1	14.3	14.3	14.3	18
Southern Cross	13C5	6500	4/1	25	6.8	8.1	6.2	5.8	5.8	5.8	9
Stemple Pass	12C1	6900	3/31	36	9.2	13.2	10.4	10.0	10.0	10.0	16
Storm Lake #2	13C7	7780	3/31	48	14.3	14.8	17.0	14.8	14.8	14.8	16
Stuart Mill	13C6	6500	4/1	25	6.2	7.6	8.1	7.3	7.3	7.3	9
Stuart Mt. #1	13C1	7400	3/28	68	21.2	34.0	27.4	30.1	30.1	30.1	18
Tennile, Lower	12C2	6250	4/1	27	7.1	7.6	6.6	6.6	6.6	6.6	19
Tennile, Middle	12C3	6800	4/1	38	10.1	11.0	11.6	10.6	10.6	10.6	19
Tennile, Upper	12C4	8000	4/1	43	12.7	13.5	14.0	13.4	13.4	13.4	19
*M9-Meadows	15B3	5000	4/1	89	31.8	46.0	36.3	35.6	35.6	35.6	18
*Lookout	15B2	5250	4/1	90	32.7	50.5	33.1	34.4	34.4	34.4	18
El Dorado Mine	13C9	7800	3/30	61	19.0	--	--	23.1	23.1	23.1	4
Gold Creek Lakes	13C8	7200	3/30	47	13.6	--	--	18.4	18.4	18.4	3
<u>BITTERROOT</u>											
East Fork R.S.	13D1	5400	4/1	31	8.1	7.0	8.3	5.7	5.7	5.7	16
Gibbons Pass	13D2	7100	3/31	64	21.4	24.6	28.0	23.8	23.8	23.8	16
Nezperce Pass	14D1	6575	4/3	52	17.3	19.4	19.1	17.4	17.4	17.4	18
Nezperce Camp	14C2	5580	4/3	48	16.0	14.6	15.8	13.6	13.6	13.6	18
Skalkaho Summit	13C3	7259	3/31	74	25.0	32.8	26.5	25.7	25.7	25.7	16
Stuart Mt. #1	13C1	7400	3/28	68	21.2	34.0	27.4	30.1	30.1	30.1	18
*Moose Creek	13D16	6200	3/31	50	14.9	17.3	22.6	16.4	16.4	16.4	18
*Kit Carson	14D3	4700	4/3	39	11.2	8.4	8.2	9.6	9.6	9.6	6
*Savage Pass	14C4	6000		80	26.1	30.9	30.3	26.0	26.0	26.0	17
*Powell Pasture	14C3	3700		39	15.8	17.7	15.2	13.3	13.3	13.3	16
*Packers Meadow	14C2	5700		70	25.3	38.5	21.7	22.6	22.6	22.6	18
Elk Summit				121	43.5						
<u>PEND OREILLE</u>											
Baree Mt.	15B1	6000	4/1	102	41.0	60.3	45.8	37.9	37.9	37.9	16
Freezeout Summit	15B10	7000	4/1	103	33.8	46.9	36.2	32.8	32.8	32.8	18
Hoodoo Creek	15C1	6200	4/1	124	48.1	69.0	48.1	45.7	45.7	45.7	18
Smith Creek	16A1	4800	3/30	111	44.3	60.2	53.4	43.8	43.8	43.8	16

*Adjacent Basin



STATUS OF RESERVOIR STORAGE APRIL 1, 1955

BASIN & STREAM	RESERVOIR	USEABLE CAPACITY (M.A.F.)	THOUSAND ACRE FEET IN STORAGE ABOUT APRIL FIRST			10-yr. avg. 1943-52
			1955	1954	1953	

MISMOU RIVER BASIN

Beaverhead	Lima	84.00	32.5	48.3	34.0	
Madison River	Hebgen Lake	345.00	182.6	196.7	203.3	218.1
Madison River	Ennis Lake	41.00	38.0	34.0	33.4	34.9
Hyalite Creek	Middle Creek	8.03	--	4.8	5.5	--
Missouri River	Canyon Ferry	2043.00	1,177.0	437.0	80.5	--
Missouri River	Hauser & Helena	62.50	63.8	48.3	51.9	44.2
Missouri River	Lake Helena	10.45	10.9	5.8	6.9	1/ 6.8
Missouri River	Holter Lake	81.92	77.2	79.6	36.6	57.8
N.Fk.Sun River	Gibson	105.00	69.0	54.9	73.9	73.2
N.Fk.Sun River	Willow Creek	32.30	25.3	25.7	28.2	18.3
N.Fk.Sun River	Pishkun	32.00	19.2	24.7	19.9	20.5
Birch Creek	Swift	30.00	29.1	18.5	22.0	28.0
Dupuyer & Birch	Lake Francis	112.00	95.8	92.3	101.4	102.1
Judith River	Ackley Lake	5.82	4.6	2.2	--	4.8
Missouri River	Fort Peck	19,000.00	9,326.0	12,140.0	12,630.0	12,514.0
Milk River	Fresno	127.20	76.2	128.4	97.5	96.9
Milk River	Nelson	66.80	47.5	44.0	36.7	31.8
W.Rosebud Creek	Mystic Lake	20.80	3.9	3.9	4.8	3.3
Red Lodge Creek	Cooney	27.50		17.1	19.6	13.7
Tongue River	Tongue River	73.90			22.1	17.3
Swiftcurrent Crk	Sherburne Lake	66.10	19.9	22.5	25.4	25.8

MISMOU RIVER BASIN - WYOMING

Shoshone River	Buffalo Bill	440.00	133.8	117.8	154.8	263.9
Wind River	Boysen	758.00	268.7	382.0	495.0	152.4
Wind River	Pilot Butte	31.6	26.4	17.7	23.5	16.4
Bull Creek	Bull Lake	152.00	62.2	69.3	56.0	56.4
Belle Fourche	Key Hole	190.00	15.0	8.6	13.8	1.3

MISMOU RIVER BASIN - NORTH DAKOTA

Heart River	Heart Butte	54.80	56.8	70.2	57.7	3/70.8
Heart River	Dickerson	4.3	4.3	5.2	3.6	4/ 5.6

MISMOU RIVER BASIN - SOUTH DAKOTA

Belle Fourche	Belle Fourche	185.00	68.0	120.4	65.6	131.6
Cheyenne River	Angostura	160.00	48.5	32.7	50.6	41.0
Cheyenne River	Deerfield	15.1	10.9	15.1	13.9	13.8
Grand River	Shadehill	84.00	77.8	82.7	84.2	--

1/ 7-yr. average

3/ 5-yr. average

4/ 4-yr. average

STATUS OF RESERVOIR STORAGE APRIL 1, 1955

BASIN & STREAM	RESERVOIR	USEABLE CAPACITY (M.A.F.)	THOUSAND ACRE FEET IN STORAGE				10-yr. avg. 1943-52
			1955	ABOUT APRIL FIRST 1954	1953		

COLUMBIA RIVER BASIN

Flint Creek	Georgetown Lk	31.00	20.1	21.5	23.8	21.7
S.Fk.Flathead	Hungry Horse	3,500.00	2,155.0	1,634.0	858.3	5/898.0
Flathead River	Flathead Lake	1,791.00	709.8	909.0	777.9	991.9
Flathead River	Camas Res's	42.80	39.5	33.8	37.2	6/ 26.5
Flathead River	Mission Valley	98.60	57.2	25.2	43.5	7/ 49.2
Jocko Creek	Lower Jocko Lake	7.6	--	0.2	0.2	0.9

5/ 3-yr. average

6/ Camas Reservoirs are shown as a sum of (4) small reservoirs on the west side of Flathead Lake located on Dry Creek and Little Bitterroot River.

7/ Mission Valley Reservoirs are shown as a sum of (8) small reservoirs located south and east of Flathead Lake. Both Camas and Mission Valley reservoirs are operated by the Indian Irrigation Service.





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COOPERATIVE SNOW SURVEYS

Furnishes the basic data
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